SAA095Y03-001 JAN 24 1992

REV. D

B/L: SYS: PAD A WATER. MLP-3

Critical Item: Ball Valve, Pneumatic Operated (1 Item)

Find Number: A88280 (V-18)

Criticality Category: 15

SAA No: 095Y03-001, Rev. D

System/Area: Pad A Water, MLP-3

AZAN

PMN/ K60-0046/

Part No: None

Name: Firex Water, MLP-3

Mfg/

Jamesbury/

Drawing/

Part No: 6D300F-36D with pneumatic Sheet No: 79KD6011/1

piston actuator and

position limit switch

Function: To control Firex water flow to Cryo sled MLP-3 side 1 area spray nozzies.

Critical Failure Mode/Failure Mode No: Fail closed/095Y03-001.010

Failure Causes: Caused by corrosion, contamination or structural failure of internal piece part.

Failure Effect: Loss of Firex spray, Cryo sled MLP-3 side 1 area. Possible loss of life or vehicle during a hazardous condition. Time to effect:

Acceptance Rationale

Des<u>ign</u>:

o 316 Stainless steel body - Teflon ball seats

o Component Specification

Rated

Actual

Working Pressure

720 psig

240 psig

Test:

- o Manufacturer hydrostatic test 1100 psig
- o System pre-mission validation (OMI M2075) requires cycling of water valves to verify proper operation.

WORKSHEET 5122-012 910531hdM3-897

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B/L: PAD ANMATER, SYS: MLP-3

Ball Valve, 6-Inch Pneumatic Operated (1) A88280 (V-18) (Continued)

Inspection:

OMRSD, File VI will require verification of the operational function of the water valve in all modes of operation semiannually and at replacement.

Failure History:

- The PRACA database was queried and no failure data was retrieved against this component in the critical failure mode.
- The GIDEP failure data interchange system has been researched and no failures of this component were found in the critical failure mode.

Operational Use:

- An operational failure can be detected by monitoring associated water valve position switch function designators.
- Correcting Action:

There is no action which can be taken to mitigate the failure effect.

Timeframe:

Since no correcting action is available, timeframe does not apply.

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